



# ZF Speed Sensor GS82 Series for E-Bike application



## Characteristics

- Hall based non-contact and solid-state sensor
- Virtually unlimited life, no wear and tear from friction
- Immune to vibration, shock, dirt or water for an improved functional safety especially for Pedelecs, S-Pedelecs and E-Scooter
- Available standard product with Higo connector.
- Flexibility in terms of cable length and connector assemblies.
- High resolution in combination with speed and brake disk especially for slow speeds (e.g. hill starts)
- Hall sensor with speed disk for improved manipulation resistance and robustness
- Best suitable also for ABS-Systems
- Customised versions on request

## Technical Specifications

### Mechanical characteristics

Air gap	0.4 - 1.8mm (dependent on target wheel) (Air gap tested with ZF target wheel)
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### Electrical characteristics

Supply voltage	6.5 – 20 VDC
Signal output I <sub>low</sub>	7 <sup>+1,4/ -1,1</sup> mA
Signal output I <sub>high</sub>	14 <sup>+2,8/ -2,2</sup> mA
Operating frequency	1 – 2.5kHz

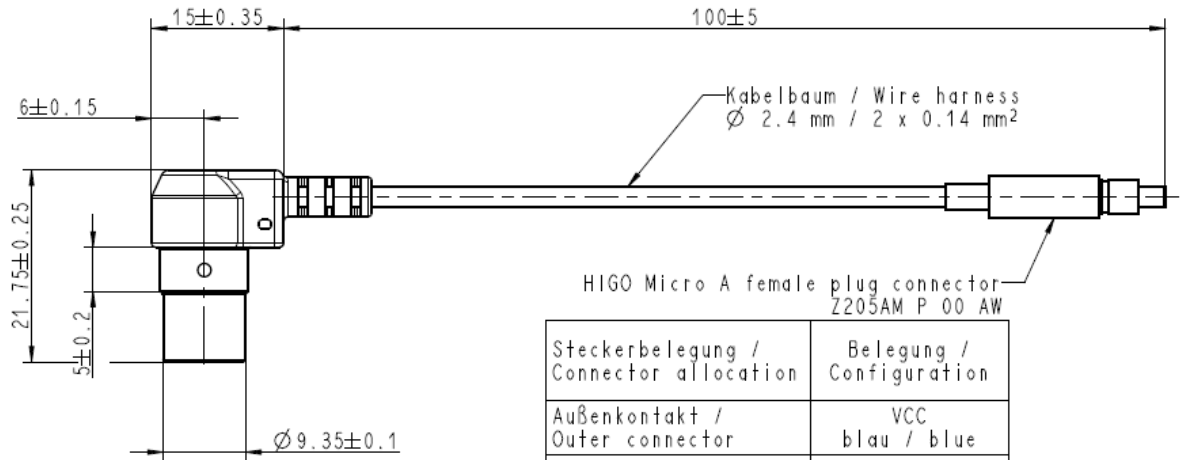
### Operating Conditions

Operating temperature	-25°C – 85°C
Immersion protection	IP67

Part Number	GS82-AA06
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Dimensions in mm



Steckerbelegung / Connector allocation	Belegung / Configuration
Außenkontakt / Outer connector	VCC blau / blue
Innenkontakt / Inner connector	Signal schwarz / black

